

Abstract

An amine recovery apparatus includes a carbon dioxide absorption section and plural water washing sections. The carbon dioxide absorption section brings the exhaust gas into vapor-liquid contact with an absorbing solution containing an amine compound and produces decarbonated exhaust gas. The water washing sections bring the decarbonated exhaust gas into vapor-liquid contact with washing water and sequentially recover the amine compound accompanying the decarbonated exhaust gas, while the decarbonated exhaust gas passes through the water washing sections in sequence from inlet portions to outlet portions thereof, respectively. The water washing sections have plural liquid reservoirs provided at the inlet portions of the water washing sections, respectively, and the liquid reservoirs reserve the washing water which is transported to the outlet portions of the water washing sections and supplied to the water washing sections, respectively.